

(DC-4213)

Functional Changes in the Receptors of the
Urinary Bladder of a Dog During the Development
of Induced Tumors, by A. N. Horeva, 9 pp.

UK
RUSSIAN, per, Fiziol Zhur, Vol VI, No 3,
May/Jun 1960, pp 391-397.

JPRS 8073

Sci - Med

Apr 61

147,867

(DC-4213)

Electron Microscope Studies of Kidneys in Acute
Radiation Sickness Caused by Radioactive
Strontium, by O. O. Gorodets'kiy, O. A.
Khosutovs'kiy, T. M. Oleynikova, V. V.
Adaryushchenko, 14 pp.

RUSSIAN, per, Fiziol Zhur, Vol VI, No 3,
May/Jun 1960, pp 405-413.

JPRS 8073

Sci - Med

147,868

Apr 61

(DELETED).
Conference on the Problems of the Physiology of
the Processes of Fatigue and Resorative Processes,
by N. O. Vakolyuk, 3 pp.

UKRAINIAN, per, Fiziologichnyy Zhur, Vol VI, No 3, 1960,
pp 427-428.

*JPRS 6047

Sci-Med

18 Aug 60

(NY-5200)

Modern Computing Machines and the Psychic Activity
of Man, by L. G. Dobrovol'skiy, 15 pp.

RUSSIAN, per, Fiziol Zhur, Vol VI, No 4,
Jul/Aug 1960, pp 450-458.

JPRS 7315

Sci - Electron

Jan 61

136,511

(NY-5200)

The Neural Apparatus of the Adrenal Glands and Its
Reactive Characteristics, by G. E. Agarkov, 15 pp.

RUSSIAN, per, Fiziol Zhur, Vol VI, No 4,
Jul/Aug 1960, pp 498-506.

JPRS 7316

Sci - Med

137,584

Jan 61

(NY-5200)

Age Peculiarities in the Change of the Blood
Picture and Bone Marrow of White Rats Under the
Influence of Cortisone, by Sung Len-fen, 11 pp.

RUSSIAN, per, Fiziolog Zhur, Vol VI, No 4,
Jul/Aug 1960, pp 509-517.

JPRS 7317

Sci - Med

Jan 61

136,105

Electrophysical Investigation of Various
Sections of the Auditory System of the Cat
Under Conditions of Sustained Rhythmic
Stimulation, Ya. A. Al'tman, 12 pp.
RUSSIAN, per. Fiziologicheskii Zhurnal SSSR,
Vol 46, No 5, 1960, pp 526-536.
ACSI-K-1938
FSTC-HT-23-1191-72

Apr 72

(NY-6612)

The Materialistic Principle of Structure in the
Study of Higher Nervous Activity, by A. P.
Makarchenko, 23 pp.

RUSSIAN, per, Fiziolo Zhur, Vol VI, No 5, Sep/Oct
1960, pp 563-570.

JPRS 10312

Sci - Med

173,576

Bot 61

(NY-5597)

Some Clinical-Pathophysiological Features of
Chronic Alcoholism, by O. H. Vilenkiy, 11 pp.

RUSSIAN, per, Fiz Zhur, Vol VI, No 5, 1960,
pp 577-583.

JPRS 7798

Sci - Med

Mar 61

142,600

(NY-5597)

On the Effect of Centimeter Band Radio Waves on
Higher Nervous Activity and the Hematogenic and
Reproductive Organs, by S. F. Horodets'ka,
13 pp.

RUSSIAN, per, Fiz Zhur, Vol VI, No 5, 1960,
pp 622-629.

JPRS 77:77

Sci - Med

Mar 61

142,467

(NY-5609)

Third Scientific Conference on Problems of the
Physiology of Work, by V. H. Kryzhanivskiy, 12 pp.

RUSSIAN, per, Fiz Zhur, Vol VI, No 5, Sep/Oct 1960,
pp 694-697.

JPRS 7630

Sci - Phys

Feb 61

140,080

(NY-5836)

Investigation of the Morphological Composition
of the Peripheral Blood in Aged Persons, by
L. I. Barchenko, Ye. D. Genis, 9 pp.

RUSSIAN, per, Fiziol Zhur. Vol VI, No 6,
Nov/Dec 1960, pp 801-807.

JPRS 9037

Sci - Med

Apr 61

147,870

(BY-5951)

Cosmic Medicine and Its Tasks, by M. M. Syrotynin,
8 pp.

RUSSIAN, per, Fiz Zhur, Vol VII, No 1, ~~pp 3-8~~
pp 3-8.

JPRS 9418

Sci - Space Res

155,485

Jun 61

(NY-5951)

The Ecology of Space Flight, by V. I. Danylevko,
13 pp.

UKRAINIAN, per, Fiziol Zhur, Vol VII, No 1,
1961, pp 9-17.

JPRS 9419

Sci - Space Res

Jul 61

160, 121

(NY-5951)

The Reaction of the Islet Apparatus of the Pancreas
During the Radiation Syndrome, by V. V. Tsvetkova,
8 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 1, 1961,
pp 76-81.

JPRS 9420

Sci - Med

Jul 61

157,085

(MI-5551)

Changes in Protein Fractions of the Blood Serum
of Dogs in Acute Radiation Sickness, by Ye. Yu.
Chebotar'ov, 13 pp.

RUSSIAN
FIZIOLOGI, per, Fiziol Zhur, Vol VII, No 1,
1961, pp 83-91.

JPRS 9421

Sci - Med

Jul. 61

158, 581

Changes in the Properties of Monkey Blood Plasma
Which Are Toxic for Paramecia in Acute Radiation
Sickness, by G. A. K. Dzhalafarov, 11 pp.

ARGENTINIAN
MOSCOW, per, Fiziol Zhur, Vol VII, No 1,
1961, pp 93-99.

JPRS 9422

Sci. - Med

Jul 61

158, 580

(NY-5951)

Characteristics of the Innervation of the Pia
Mater of the Human Brain in Advanced and Old Age,
by G. A. Konstantynovskiy, 9 pp.

RUSSIAN, per, Fiz Zhur, Vol VII, No 1, 1961,
pp 113-119.

JPRS 9423

Sci - Med

Jun 61

158,047

(NY-5951)

Third Conference on Problems of Electrophysiology,
by Z. O. Sorokina, Yu. P. Limans'kiy, 5 pp.

RUSSIAN, per, Fiz Zhur, Vol VII, No 1, 1961,
pp 151-153.

JPRS 9424

Sci - Med

Jun 61

158,048

(NY-6551/1)

Formation and Development of the Mobility of
Neural Processes in Ontogeny in Dogs, by
V. A. Troshikhin, L. N. Kozlovva, 9 pp.

o

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,
Mar/Apr 1961, pp 159-164.

JPRS 9967

Sci - Med
Sep 61

167,861

(NY-6551/2)

Peculiarities of the Course of the Excitation
Process in Various Parts of the Motor Neuron,
by P. G. Kostyuk, I. P. Semenyutin, 20 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,
Mar/Apr 1961, pp 165-176.

JPRS 9968

Sci - Med
Sep 61

167, 899

(NY-6551/3)

Changes in the Pneumogram and Electrocardiogram
Arising as a Result of the Action of Weak
Pulse Currents on the Brain, by M. D.
Stetsenko, 15 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,
Mar/Apr 1961, pp 187-195.

JPRS 9969

Sci - Med
Sep 61

167,011

(NY-6551/4)

Electrophysiological and Histological Characteristics of the Joint Capsule Receptors, by
S. I. Fundel'-Osipova, G. L. Yemets, A. V.
Burychenko, 16 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,
Mar/Apr 1961, pp 177-205.

9

JPRS 9970

167,898

Sci - Med
Sep 61

(NY-651/5)
5

Effect of X-Ray Irradiation on the Membrane
Potential and Concentration of Sodium and
Potassium in Frog Muscle Fibers, by V. I.
Bogomolets', 12 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,
Mar/Apr 1961, pp 214-219.

JPRS 9971

167,901

Sci - Biol
Sep 61

(NY-6551/6)

Effect of Ultrasound on the Nucleic Acid,
Content in the Tissues of the Animal Organism,
by M. Yu. Khursin, 8 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,
Mar/Apr 1961, pp 266-270.

JPRS 9972

Sci - Med
Sep 61

167,873

S-331/61

(NY-6551)

The Basic Substance, Its Composition and Functional
Significance, by A. I. Smirnova-Zamkova, G. V.
Melnichenko,

UKRAINE
RUSSIAN, per, Fiziol Zhur, Vol VII, No 2, 1961,
(pp 277-283.)

*JPRS

Sci - Med
14 Jun 61

(NY-6551/8)

Symposium on Certain Philosophical Problems
of Medicine and Natural Science, by V. M. Richman,
V. A. Karaboy, 8 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 2,
Mar/Apr 1961, pp 207-209.

JPRS 9974

Sci - Med.

Oct 61.

171,054

(NY-6071)

Paths of the Development of Native Gerontology,
by M. M. Horyev, L. P. Cherkas'kyy,
10 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 3,
May/Jun 1961, pp 327-332.

JPRS 10648

Sci - Med
Nov 61

17458

011-10971
The Progress of the Study of A. A. Bogomolev
Concerning the Physiological System of Con-
nective Tissue and the Collagen Diseases,
by O. I. Smirnova-Zamkova, M. V. Mel'nychen-
ko, 18 pp.

RUSSIAN, per, Fiz Zhur, Vol VII, No 3,
May/Jun 1961, pp 333-342.

JPRS 10649

USSR

Soc

Med

Nov 61

174,605

(111-0000)

The Significance of the Ideas of O. O.
Bogomolov on the Further Development of
the Study of Longevity and Aging, by M.
O. Spasokukots'kyy, 13 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII,
No 3, May/Jun 1961, pp 343-351.

JPNS 10641

NAK
USSR
Soc
Nov 61

174,618

(NY-6895)

Concerning the Permeability of Connective Tissues,
by Ye. O. Potarynov, 17 pp.

RUSSIAN, per, Piziol Zhur, Vol VII, No 3,
May/Jun 1961, pp 352-361.

JPRS 10647

Sci - Med

Nov 61.

174, 292

(NY 6595)

ACS and Other Cytotoxic Sera and their
Significance in Medicine, by P. D.
Marchuk, 8 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII,
No 3, May/Jun 1961, pp 371-375.

JPRS 10646

Sci - Med
Nov 61

174,572

Experimental Investigations of the Patho-
genesis of Arterial Hypertension, by M. G.
Hurevych, 16 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII,
No 3, May/Jun 1961, pp 385-394.

JPMS 10694

Sci. - Med
Nov 61.

174 001

(NY-898)

Neurogenic Mechanisms of Sensitization,
by S. M. Pavlenko, 12 pp.

RUSSIAN, per, ~~NEUROGENIC~~ Fiziol Zhur,
Vol VII, No 3, May/Jun 1961, pp 457-468.

JPRS 106432

Sci - Med
Nov 61

174,589

A New Variation of the Method of Artificial
Blood Circulation, by M. P. Adamenko, 7 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 4,
1961, pp 563-566.

JPRS 10214

Sci - Med
Oct 61

171,649

Method of Ballistocardiographic Study of Dogs,
by M. M. Povzhitkov.
UKRAINIAN, per, Fiziol Zhur Ak Nauk Ukrain RSR,
Vol VII, No 4, 1961, pp 569-570.
JPRS 12889

Sci - B & M Sci
Mar 64

NASA TT F-8534
(U.S. Gov't ONLY)

252,023

(NY-6000/2)

Scientific Conference on the Problems of
Gerontology and Geriatrics, by P. D. Marshuk, 5 pp.

RUSSIAN, per, Fiziol Zhur, Vol VII, No 4, 1961,
pp 571-572.

JPRS 10213

Sci - Med

171,066

Oct 61

(NY-6812)

A Comparative Study of Resistance to
Radial Acceleration, by N. N. Syrotynin,
6 pp.

UKRAINIAN, per, Fiziol Zhur, Vol. VII,
No 5, 1961, pp 602-606.

JPRS 11906

Sci - Med

181, 189

Jan 62

(NY-6812)

Chemoprophylaxis and Chemotherapy of
Experimental Acute Radiation Sickness,
by A. A. Gorodets'kyi, V. A. Buraboy,
12 pp.

UKRAINIAN, per, Fiziol, Zhur, Vol VII,
No 5, 1961, pp 617-625.

JPRS 11906

181,190

Sci - Med

Jan 62

(NY-6812)

The Effect of Mountain Climate on the
Cardiovascular System, by M. V. Il'-
chevych, M. A. Kondratovych, 7 pp.

BURCHAYNLAN, per, Fiziol Zhur.
Vol VII, No 5, 1961, pp 626-629.

JPRS 11906

Sci - Med

181, 183

Jan 62

(NY-0112)

Dynamics of Changes in the Content and
Exchangeability of Nucleic Acids After
Ultrasound Irradiation, by M. Yu.
Khursin, 5 pp.

RUSSIAN,
UKRAINIAN, per, Fiziol Zhur, Vol VII,
No 5, 1961, pp 667-670.

JPRS 11906

Sci - Med

183, 184

Jan 62

(NY-6812)

The Effect of Radiowaves of the Three-Centimeter,
Waveband on the Functional Condition of
the Adrenal Cortex, by S. F. Gorodets'ka,
5 pp.

RUSS

UKRAINIAN, per, Fiziol, Zhur, Vol VII,
No 5, 1961, pp 672-674.

JPRS 11906

181, 185

Sci - Med

Jan 62

(NY-00012)

The Application of Polyethylene Tubes for
Angiotomy Using London's Method, by
T. K. Valiyeva, 3 pp.

UKRAINTAN, per, Piziol Zhur, Vol VII.
No 5, 1961, pp 709-710.

JPRS 11906

Sci - Med

181,186

Jan 62

*NY-6932)

AN INSTRUMENT FOR THE CLINICAL STUDY OF PUPILLARY
ORIENTATION AND PHOTOREACTION AND THE MOTION OF THE
HUMAN EYEBALL AND EYELID, BY A. YE. LIBERMAN,
6 PP.

RUSSIAN, PER, FIZ ZHUR, VOL VII, NO 6, 1961,
PP 346-348.

JPRS 12596

SCI - MED
MAR 62

183,208

(NY-1878)

BIOGRAPHIC INFORMATION ON DANILO SEMENOVICH
VORONTSOV, BY ~~BY~~ O. F. MAKARCHENKO, S. I.
FUDEL'OSIPOVA, P. H. KOSTYUK, 14 PP.

UKRAINIAN, PER, FIZIOLOGICHNYY ZHUR, VOL VIII,
NO 1, 1962, PP 3-12.

JPRS 14868

USSR - UKRAINE
BIOG
AUG 62

208,417

(NY-1878)

ON THE INTERRELATIONSHIPS OF LIVING CELLS AND
THE ENVIRONMENT (A REPORT TO THE SIXTH CONGRESS
OF THE UKRAINIAN SOCIETY OF PHYSIOLOGISTS,
ODESSA, 1961), BY D. S. VORONTOV, O. O. BOGOMOLET, S.
11 PP.

UKRAINIAN, PER, FIZIOLOGICHNYY ZHUR, VOL VIII,
NO 1, 1962, PP 13-20.

JPRS 14868

~~SECRET~~
SCI - MED

(NY-1878)

D. S. VORONTSOV'S PHENOMENON IN ONE NEUROMOTOR
UNIT, BY S. I. EUDEL'-OSIPOVA, 7 PP.

UKRAINIAN, PER, FIZIOLOGICHNYY ZHUR, VOL VIII,
NO 1, 1962, PP 38-43.

JPRS 14868

SCI - MED

AUG 62

208,419

TT-63-24509

Mamonets', T. M.
THE POTENTIAL OF THE DEGENERATING POSTERIOR CEREBROSPINAL ROOT OF THE CAT (Pro Potentsial Pererodkhuvanogo Zadn'ogo Spynnomozkovogo Korinteya Kishky). [1963] [13p] 20refs
FASEB manuscript no. S 343-2
Order from OTS, SLA, or ETC \$1.60 TT-63-24509
figs. available on loan from OTS
Trans. of *Fiziolichnyi Zhurnal* (USSR) 1962, v. 8, no. 1, p. 71-78. (Abstract available)

- I. Mamonets', T. M.
- II. FASEB-S-343-2
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

DESCRIPTORS: Electric potential, *Nerves,
*Spinal cord, Neurons, Neuromuscular transmission,
*Bioelectronics.

The electronic potential (ETP) of degenerating dorsal roots of spinal nerves was studied to clarify which part of the axon produced the ETP of the dorsal root. The sixth or seventh lumbar dorsal root in cats was cut between the spinal cord and spinal ganglion. The ETP was (Biological Sciences--Physiology, TT, v. 11, no. 6) (over)

Office of Technical Services

TT-64-13413

Magura, I. S.
ON CERTAIN PROPERTIES OF THE MUSCLE FIBER
MEMBRANE WITH RESPECT TO RUBIDIUM IONS.
[1963] [13p] FASEB manuscript no. S 347-2
Order from OTS, SLA, or ETC \$1.60 TT-64-13413

Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8,
no. 1, p. 107-111.

DESCRIPTORS: *Muscles, *Cells (Biology), *Rubidium,
Body fluids, *Electrolytes (Physiology), Membranes
(Biology).

(Biological Sciences--Physiology, TT, v. 11, no. 8)

- I. Magura, I. S.
- II. FASEB-S-347-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

(NY-1878)

ALL-UNION CONFERENCE ON THE PROBLEM OF THE
PHYSIOLOGY AND PATHOLOGY OF RESPIRATION, BY
D. A. KOCHERGA, 6 PP.

RUSSIAN, PER, FIZIOLOGICHNYY ZHUR, VOL VIII,
NO 1, 1961, PP 139-142.

JPRS 14869

SCI - MED

AUG 62

208,386

TT-64-13499

Volkovich, A. A.
ROLE OF NEUROSECRETION OF HYPOTHALAMIC
NUCLEI IN REGULATION OF WATER METABOLISM.
[1963] [36p] 66reels FASEB manuscript no. S 115-3.
Order from OTS, SLA, or ETC \$3.60 TT-64-13499
figs. available on loan from OTS
Trans. of Fiziolicheskii Zhurnal (USSR) 1962, v. 8,
no. 2, p. 147-158.

DESCRIPTORS: Secretion, *Thalamus, Nuclei (Biology),
Water, Metabolism, *Body fluids, *Pituitary hormones,

I. Volkovich, A. A.
II. FASEB-S-115-3
III. Federation of American
Societies for Experimental
Biology, Washington, D.C.
IV. Scripta Technica, Inc.,
Washington, D. C.

(Biological Sciences--Physiology, TT, v. 11, no. 9)

Office of Technical Services

TT-63-23903

Troshykhin, V. A.
SOME QUESTIONS ON THE DEVELOPMENT OF
CONGENITAL CONDITIONED REACTIONS AND
NEUROSES DURING ONTOGENESIS (Deyaki Pytannya
Rozvytku Pryrodzhennykh Umovnykh Reakttsii i
Nevroziv v Ontogenezi). [1963] [18p] 16refs FASEB
Manuscript no. S 349-2.
Order from OTS, SLA, or ETC \$1.60 TT-63-23903

Trans. of Fiziolichnyi Zhurnal (USSR) 1962, v. 8,
no. 2, p. 189-197. (Abstract available)

DESCRIPTORS: *Conditioned reflex, Reflexes,
*Reaction (Psychology), *Neuroses, *Speech disorders,
Infants, Analyzers (Psychology)

The development and changes of the sucking and
opisthotonus reflexes of puppies during the first year of
life are described. Neuroses were developed in puppies
by conditioned reactions formed in association with
(Behavioral Sciences--Psychology, TT, v. 11, no. 7)
(over)

- I. Troshykhin, V. A.
- II. FASEB S-349-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Optimum Conditions for Recording Electroplethysmograms
of Parts and Organs of the Human Body, by Yu. Ye.
Moskalenko.

RUSSIAN, per, Fiziol Zhurnal, 1962, Vol 8, No 2,
pp 214-218.

NIL 6015.49 1964 (203) (On Loan)

Aug 65

287,167

(SF-1878)

Yevgen Borysovych Babs'kyy, 4 pp.

UKRAINIAN, per, Fiziologichniy Zhurnal,
Vol VIII, No 2, pp 275-277.

JPRS 14831

USSR - Ukraine
Biog
Aug 62

Komisarenko, V. P.
SOME PHYSIOLOGIC INTERRELATIONSHIPS BETWEEN THE ADRENAL CORTEX AND THE NERVOUS SYSTEM. [1963] [24p] 5 refs FASEB Manuscript no.: S 116-3.
Order from OTS, SLA, or ETC \$2.60 TT-63-24459

Trans. of Fiziologichnyi Zhurnal (USSR) [1962] v. 8, no. 3, p. 283-291.

DESCRIPTORS: *Adrenal cortex, *Nervous system, *Corticosteroid agents, Stimulation, Hormones,

(Biological Sciences--Physiology, TT, v. 11, no. 5)

TT-63-24459

- I. Komisarenko, V. P.
- II. FASEB-S-116-3
- III. Federation of American Societies for Experimental Biology, Washington, D. C.
- IV. Scripta Technica, Inc., Washington, D. C.

Office of Technical Services

Agarkov, G. B.
SOURCES OF INNERVATION OF THE ADRENAL
GLANDS AND THEIR VESSELS. [1963] [15p] 10 refs
FASEB manuscript no. S 351-2
Order from OTS, SLA, or ETC \$1.60 TT-64-13410

Trans. of Fiz(iologicheskii) Zh(urnal) (USSR) 1962,
v. 8, no. 3, p. 375-381.

DESCRIPTORS: *Adrenal glands, Nerves, Blood
vessels

(Biological Sciences--Anatomy, TT, v. 11, no. 9)

TT-64-13410

- I. Agarkov, G. B.
- II. FASEB-S-351-2
- III. Federation of American
Societies for Experi-
mental Biology,
Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Investigating Local Thermal Effect of
Electromagnetic 3 cm Waves on Animals,
by V. I. Mirutenko, 11 pp.

UKRAINIAN.

~~RUSSIAN~~, per Fiziologicheskii Zhurnal,
Vol VIII, No 3, Jun 1962, pp 382-389.
9667361

FTD-TT-62-1361

Sci - Biol, Med.
Jan 63

Morphological Changes in Internal Organs When the Organism is Exposed to the Effect of Centimeter Waves, by S. F. Gorodetska, 8 pp.

UKRAINIAN, per, Fiziologichnyi Zhurnal, Vol VIII, No 3, Jun 1962, pp 390-396. 9667361

FTD-TT-62-1361

Sci - Biol, Med
Jan 63

TT-63-23902

Dumenko, V. M.
ELECTROGRAPHIC EXPRESSION OF CERTAIN
FORMS OF INTERNAL INHIBITION. [1963] [16p]
(figs omitted) 17 refs FASEB Manuscript no. S 353-2.
Order from OTS, SLA, or ETC \$1.60 TT-63-23902
figs. available on loan from OTS

Trans. of Fiziologichnyi Zhurnal (USSR) 1962,
v. 8, no. 4, p. 471-480. (Abstract available)

DESCRIPTORS: *Electroencephalography, *Cerebral
cortex, inhibition, Bioelectronics, *Conditioned reflex,
Brain.

Characteristic of the EEG manifestations of differ-
ential inhibition are: (a) continuation of electrical
reaction after stimulation ceased; (b) increased latency
of electrical reactions; (c) progressively decreasing
reactivity until changes in electrical activity are no
longer observed; (d) absence of slow waves. Charac-
(Biological Sciences--Physiology, TT, v. 11, no. 5)
(over)

- I. Dumenko, V. M.
- II. FASEB S-353-2
- III. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

TT-63-23901

Cherkes, V. O. and Martynenko, N. A.
CHANGES IN BIOPOTENTIALS OF THE CORTEX
FOLLOWING HIGH-FREQUENCY RHYTHMIC
STIMULATION OF THE CAUDATE NUCLEUS. [1963]
[15p] (figs omitted) 18refs FASEB Manuscript no. S354-2.
Order from OTS, SLA, or ETC \$1.60 TT-63-23901
figs. available on loan from OTS

Trans. of Fiziolichnyi Zhurnal (USSR) 1962, v. 8,
no. 4, p. 481-487. (Abstract available)

DESCRIPTORS: *Bioelectronics, *Cerebral cortex,
Stimulation, *High frequency, Nuclei (Biology), Brain.

It was shown in experiments with cats that following
bilateral electrolytic destruction of the ventrolateral
thalamic nuclei, or of the globus pallidus, stimulation
of the caudate nucleus continues to cause "desynchroni-
zation" in the motor zone of the cortex, just as it does
before destruction. These observations seem to
(Biological Sciences--Physiology, TT, v. 11, no. 6) (over)

- I. Title: Caudate nucleus
- I. Cherkes, V. O.
- II. Martynenko, N. A.
- III. FASEB S-354-2
- IV. Federation of American
Societies for Experimental
Biology, Washington, D. C.
- V. Scripta, Technica, Inc.,
Washington, D. C.

Office of Technical Services

Minku [Ya].
PATHOHISTOLOGICAL AND HISTOCHEMICAL STUDY
OF HEPATITIS. [1963] [19p] FASEB manuscript
no. S 355-2
Order from OTS, SLA, or ETC \$1.60 TT-64-13408
figs. available on loan from OTS
Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8,
no. 4, p. 532-542.

(Biological Sciences--Pathology, TT, v. 11, no. 11)

TT-64-13408

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- II. FASEB-S-355-2
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Office of Technical Services

Kostyuk, P. G. and Savoskina, L. O.
FUNCTIONAL CHANGES IN DEGENERATING
SYNAPTIC ENDINGS. Nov/Dec 63, 5p 23refs
Order from FASEB \$2.00 in Federation Proceedings
Translation Supplement, v. 22, no. 6, pt. II,
p. T1107-T1111

Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8,
no. 5, p. 581ff.

DESCRIPTORS: *Nerve cells, *Neuromuscular
transmission, *Spinal cord, Motor reactions,
*Atrophy, Bioelectronics.

(Biological Sciences - Physiology, TL v. 11, no. 10)

TT-63-17973-6
(p. T1107-T1111)

- I. Kostyuk, P. G.
- II. Savoskina, L. O.
- III. Federation of American
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Office of Technical Services

Os'mak, A. A.
BEHAVIOR OF ALBINO RATS FOLLOWING DE-
STRUCTION OF THE BASAL GANGLIA. [1963] [13p]
11refs FASEB Manuscript no. : S 433-2
Order from OTS, SLA, or ETC \$1.60 TT-63-24523
figs. available on loan from OTS
Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8,
no. 5, p. 616-621. (Abstract available)

DESCRIPTORS: Behavior, *Ganglia, *Cerebrum,
*Thalamus.

After unilateral destruction of the caudate nucleus,
slight behavioral changes of short duration (4-7 days)
are observed in rats; weakening of the orienting reflex
and sometimes circular movements towards the side of
the destruction, with head turned to same side. The
changes are marked, persistent (lasting a month or
more) and diverse changes are observed after bilateral
destruction of the caudate nuclei. Torpor and weakened
(Biological Sciences--Physiology, TT, v. 11, no. 6)
(over)

TT-63-24523

- I. Title: Caudate nuclei
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- II. FASEB-S-433-2
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Valueva, T. K.

CHANGES IN SERUM PROTEINS UNDER THE INFLUENCE OF ACTH IN CCl_4 POISONING OF THE LIVER. [1963] [16p] 12refs FASEB Manuscript no.: S 434-2.

Order from OTS, SLA, or ETC \$1.60 TT-63-24525

Trans. of *Fiziologichnyi Zhurnal* (USSR) 1962, v. 8, no. 5, p. 622-629. (Abstract available)

DESCRIPTORS: *Blood proteins, *Adrenocorticotrophic hormone, Liver cirrhosis, *Poisoning, Liver, *Carbon tetrachloride, Globulins, Gamma globulin.

The serum protein changes after ACTH injections in rabbits with CCl_4 induced liver damage were studied. Blood samples were taken before and four hours after ACTH injection, both in the control and the CCl_4 poisoned animals. Following the ACTH injections, the (Biological Sciences--Physiology, TT, v. 11, no. 6)
(over)

TT-63-24525

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TT-63-24526

Levchenko, M. N.

THE FUNCTIONAL INTERACTION OF THE THYROID GLAND AND THE ADRENALS IN THE REGULATION OF BLOOD PROTEINS. [1963] [15p] FASEB Manuscript no.: S 435-2.

Order from OTS, SLA, or ETC \$1.60 TT-63-24526

Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8, no. 5, p. 630-637. (Abstract available)

DESCRIPTORS: *Thyroid gland, Endocrine glands, *Adrenal glands, *Blood proteins, Adrenocorticotrophic hormone, Albumins, Globulins, Thyroid hormones,

Single injection of ACTH to normal rabbits causes an increase in the total blood serum protein content as a result of an increase in the finely dispersed albumins. There is also a decrease in the serum globulins, which leads, in turn, to an increase in the A/G ratio. The (Biological Sciences--Physiology, TT, v. 11, no. 5)
(over)

- I. Levchenko, M. N.
- II. FASEB-S-435-2
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- IV. Scripta Technica, Inc., Washington, D. C.

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TT-63-24532

Starushenko, L. I.
 INTRA-ARTERIAL INJECTION OF A SOLUTION OF
 SODIUM LACTATE AND AMINOKROVIN (LACTAMIN)
 INTO ANIMALS AFTER MASSIVE LOSS OF BLOOD
 (Vnutryarterial'ne Nagitannya Rozchynu Laktatu
 Natriyu z Aminokrovinom (Lactaminu) Tvarynam
 Pislia Masynvoyi Krovoviraty). [1963] [15p] 36refs
 FASEB Manuscript no.: S 458-2.
 Order from OTS, SLA, or ETC \$1.60 TT-63-24532

Trans. of Fiziologichnyi Zhurnal (USSR) 1962, v. 8,
 no. 5, p. 638-643. (Abstract available)

DESCRIPTORS: Injections (Medical), Arteries,
 *Hemorrhage, *Plasma substitutes, *Lactates,
 *Alanines, *Protein hydrolysates, Blood transfusions,

A study was made of hemodynamics in dogs after intra-
 arterial injection of a solution of sodium lactate, mixed
 (Biological Sciences--Pathology. TT, v. 11, no. 6)over

- I. Title: Lactamin
1. Starushenko, L. I.
- II. FASEB-S-458-2
- III. Federation of American
Societies for Experimental
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Shuba, M. F.
SPONTANEOUS ACTIVITY IN SMOOTH MUSCLE
(Do Pytaniyu pro Spontannu Aktivnost' v Gladkoyu
M'yscu). [1968] [23p] 11refs FASEB Ms no. S271-2.
Order from CTS, SLA, or ETC \$2.60 TT-64-13909

Trans. of Fiziolohicheskii Zhurnal (USSR) 1963, v. 9,
no. 1, p. 48-55.

DESCRIPTORS: *Muscles, Contraction, Kymography,
Electric potential.

(Biological Sciences--Physiology, TT, v. 11, no. 10)

TT-64-13909

I. Shuba, M. F.
II. FASEB Ms no. S271-2
III. Federation of American
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IV. Scripta Technica, Inc.,
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CHANGES IN THE MORPHOLOGICAL COMPOSITION OF THE
BLOOD IN UNDERWATER SUBMERSION OF ATHLETES, BY
M. F. SIROTKA, 8 PP.

UKRAINIAN, PER, FIZIOLOGICHNYI ZHURNAL, NO 1,
1963, PP 77-78.

JPRS 18855

SCI - BIOL & MED
MAY 63

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RESTORATION OF CIRCULATION AND RESPIRATION IN
DOGS REVIVED AFTER LONG TERMS OF CLINICAL DEATH
DUE TO ELECTRIC TRAUMA, BY N. P. ADAMENKO,
10 PP.

UKRAINIAN, PER, FIZIOLOGICHNYY ZHURNAL, NO 1,
1963, PP 82-88.

JPRS 18855

SCI - BIOL & MED
MAY 63

220,752

Berezova'kyi, V. Ya.
TEMPORARY LOCAL TEMPERATURE FLUCTUA-
TIONS IN THE CEREBRAL CORTEX OF THE DOG
AND THEIR DEPENDENCE ON REGIONAL BLOOD
CIRCULATION (Korotkchasni Mistsevi Kolyvannya
Temperatury Kory Holovnoho Mozku Sobaky i Yich
Zalezhnist' vid Regionarnoho Krovoobihu). [1963] [17p]
3 refs FASEB manuscript no. S 272-3.
Order from OTS, SLA, or ETC \$1.60 TT-64-13531

Trans. of Fiziolohichnyi Zhurnal (USSR) 1963, v. 9,
no. 1, p. 90-95.

DESCRIPTORS: *Body temperature, *Cerebral cortex,
Blood circulation, Brain, Stimulation

(Biological Sciences--Physiology, TT, v. 11, no. 8)

TT-64-13531

- I. Berezova'kyi, V. Ya.
- II. FASEB-S-272-3
- III. Federation of American
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On the Principle of the Philosophical Problem of
Biological Cybernetics, by M. L. Gorbach, 12 pp.
RUSSIAN, per, Fiziologichnyi Zhur, Vol IX, No 2,
1963, pp 151-157. 9694851
FTD-TT-64-386

Sci - Biol & Med Sci
Oct 64

267,690

TT-64-13905

Svystun, T. I.
THE SECRETION OF THE GASTRIC GLANDS IN
RESPONSE TO A MIXED DIET DURING MUSCULAR
ACTIVITY OF VARYING INTENSITY (Sekretniya
Shlunkovykh Zalog na Zmishanu Yizhu pid Chas
M'yazovoyi Diyal'noeti Rizmoyi Intensyvnoeti). [1963]
[13p] 34refs FASEB Ms no. S547-3.
Order from OTS, SLA, or ETC \$1.60 TT-64-13905

Trans. of Fiziolohichnyi Zhurnal (USSR) 1963, v. 9,
no. 2, p. 215-220.

DESCRIPTORS: Secretion, *Stomach, *Glands, Diet,
*Exercise.

(Biological Sciences--Physiology, TT, v. 11, no. 10)

- I. Svystun, T. I.
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Floater Recording Device for Physiological Investigations,
by V. G. Natski,
RUSSIAN, per, Fiziol Zhur. Vol IX, No 2, 1963, p 273-274.
*FTD-TT-64-386 9694851

Sci - Biol & Med
Apr 64

On Recording Nystagmus by Means of a Transducer
and Oscillograph, by V. T. Khlebas, N. P. Kozhukhar.
RUSSIAN, per, Fiziol Zhur, Vol IX, No 2, 1963,
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FTI-TT-64-386

Sci - Biol & Med
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Regional Hemodynamics Indicators at Vestibular Loads,
by B. O. Nakhapetov, 9 pp.
RUSSIAN, per, Fiz Zhur, Vol IX, No 3, 1963,
pp 325-329. 9691990
FTD-TT-64-32

Sci- Phys
Mar 64

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TT-64-15445

Pirogov, V. O.
MEASUREMENT OF THE TEMPERATURE OF THE
CORTICAL AND MEDULLARY LAYERS OF THE
KIDNEY DURING ITS FUNCTIONAL ACTIVITY
(Vimiryuvaniya Temperaturi Korkovogo i Mozgovogo
Shariv Nirk v Protseste yivl Diyal'nosti). [1964] [16p]
12refs FASEB Ms no. S661-3.
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Trans. of Fiziologichnyi Zhurnal (USSR) 1963,
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(Biological Sciences--Physiology, TT, v. 12, no. 3)

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S-745/63

The Influence of Centimeter Radio Waves on ~~XXXX~~
Female Mice Fertility, by S. F. Goroketskaya.
SF-279⁴

RUSSIAN, per, Fiz Zhur, Vol^{XL} IX, No 3, 1963, pp 394-395.

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Sci - Biol

Aug 63

Age-Determined Characteristics of the Regulation
of Trophism in the Skeletal Muscle, by
V. V. Frol'kis, 9 pp.
UKRAINIAN, per, Fiz Zhur, Vol IX, No 5, 1963,
pp 596-600.
NIH 5-2-64

Sci - Biol & Med
Jul 64

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Some Philosophical Problems of the Interrelationship of
Physiology and Cybernetics, by O. F. Makarchenko,
M. L. Gorbach, 12 pp.
UKRAINIAN, per, Fiz Zhur, No 6, Vol IX, 1963, pp 707-715.
(Foreware, Table of Contents)

JPRS 23060

Sci-Biol & Med
Feb 64

248, 179

On the Influence of Low Concentrations of Light Aeroions
On the Cardiac Activity of Rabbits, by Yu. D. Dumansk'yky,
5 pp.
UKRAINIAN, eper, Fiz Zhur, Vol 6X, No 6, pp 824-826.
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JPRS 23059

Sci-Biol & Med
Feb 64

248, 195

A Method for the Simultaneous Registration
of Some Indices of the Activity of the
Salivary Gland, by N. Y. Vakolyuk. 4 pp.
RUSSIAN, per, Fiziologichnyy Zhurnal,
Vol 9, No 6, 1963, pp 829-830. 9700177
FTD-TF-65-1520

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Effect of Oxygen, Carbon Dioxide, and
Nitrogen on the Electric Properties of the
Smooth Muscle, by M. F. Shuba, 8 pp.
UKRAINIAN, per, Fiziologicheskyy Zhurnal,
Vol 10, No 2, Mar-Apr 1964, pp. 156-162.
JPRS 31013

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Jul 65

283,253

Physiological Analysis of the Effects of Preceding
Muscular Efforts on the Working Capacity of Unfat-
igued Muscles, by I. V. Muravov, F. T. Tkachov, 11 pp.
UKRAINIAN, per, Fiziol Zhur, Vol X, No 2, Mar, Apr
1964, pp 163-170.
JPRS 25593

Sci - B & M Sci
Aug 64

263,434

Normal Spatial Vectorcardiogram in Laboratory
Animals Dogs, Cats, and Rabbits, and Methods for
Its Recording, by M. Ye. Kvitnitskiy, 9 pp.
UKRAINIAN, per, Fiziol Zhur, Vol X, No 2, Mar, Apr,
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JPRS 25599

Sci - B & M Sci
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Mechanism of Action of Ultrasound on Processes of
Resorption in the Gastro-Intestinal Tract,
by V. R. Faytel'berg-Blank, 13 pp.
UKRAINIAN, per, Fiziol Zhur, Vol X, No 2, MAR, Apr
1964, pp 227-234.
JPRS 25600

Sci - B & M Sci
Aug 64

263,435

Effect of Adrenalectomy in White Rats Adapted to
Hypoxia on Resistance to Radial Acceleration,
by V. P. Dudarev, 6 pp.
UKRAINIAN, per, Fiziol Zhur, Vol X, No 2, Mar, Apr
1964, pp 274-277.
JPRS 25601

Sci - B & M Sci
Aug 64

263,436

Universal Device for Input of Physiological
Characteristics into an Electronic Computer,
by K. O. Shkabara, Yu. S. Rubashov, e8 pp.
UKRAINIAN, per, Fiziol Zhur, Vol X, No 3,
May, Jun 1964, pp 301-306.
JPRS 26444

Sci- B/BM
Sep 64

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An Algorithm for Analyzing the Impulse Activity
of Neurons With an Electronic Computer,
by M. V. Yarovitskiy, 7 pp.
UKRAINIAN, per, Fiziol Zhur, Vol X, No 3,
1964, pp 308-312.
JPRS 26444

Sci - B & M
Sep 64

267,383

Some Problems of the Adaptation of the Organism
to Chronic Oxygen Starvation, by V. I. Voytkevich,
9 pp.

UKRAINIAN, per, Fiz Zhur Ak Nauk.Ukrayins
RSR, Vol X, No 3, 1964, pp 360-365.
JPRS 26444

Sci - B & M
Sep 64

267,384

S-698/64

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No 3, 1964, pp 361-366; ~~368-372~~; ~~366-365~~; 379-382;
390-392; 392-394; 394-396; ~~400-407~~; 407-409; 410-411;
and 416-418.

*JPRS

262/44

Sci - Biol & Med Sci
Jul 64

Electrical Activity of the Neurons of the Visual
Cortex of the Rabbit, by R. R. Velikaya, 12 pp.
UKRAINIAN, per, Fiziol Zhur, No 4, Jul, Aug 1964,
pp 450-458.
JPRS 26990

Sci - B & M
Dec 64

269,901

Senescence and Adaptation of the Organism,
by V. V. Frol'kis, 10 pp.
UKRAINIAN, per, Fiziol Zhur, No 4, Jul, Aug 1964,
pp 460-467.
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Sci - B & M
Dec 64

269,902

The Problem of the Interception of the Tongue,
by V. O. Samoylov, 9 pp.
UKRAINIAN, per, Fiziol Zhur, No 4, Jul, Aug 1964,
pp 469-474.
JPRS 26990

Sci - B & M
Dec 64

269,903

Effect of an Ultra-High Frequency Field and Convectional
Heat on the Estrual Cycle in Mice, by S. F. Gorodetskaya,
8 pp.
UKRAINIAN, per, Fiziol Zhurn, No 4, Jul, Aug 1964,
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Dec 64

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The Mechanism of the Biological Action of Ultrasonic
Vibrations, by M. I. Gurevich, S. A. Bershteyn, 13 pp.
UKRAINIAN, per, Fiziol Zhur, No 4, Jul, Aug 1964,
pp 508-514.
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Sci - B & M
Dec 64

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Relations Between Peripheral Motor Chronaxy and
the Mobility of the Basic Nerve Processes in the
Human Cerebral Cortex, by N. V. Kol'chenko, 6 pp.
UKRAINIAN, per, Fiziol Zhur, No 4, Jul, Aug 1964,
pp 518-521.
JPRS 26990

Sci - B & M
Dec 64

269,906

Relation Between Work Span and Rest Periods
for People of Various Ages, Bypp. K. Kutyak,
5 pp.
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Vol I, No 4, Jul/Aug 1964, pp. 521-523.
JPRS 31268

Sci-B/M

Aug 65

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Effect on the Organism of Partial Weightlessness
Due to Submersion in Water, by V. P. Dudarev,
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Sci - B & M
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